

Macalister Demonstration Farm, Dairy Australia, Extension Project

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Macalister Demonstration Farm Update 267 (Week ending Sep 23, 2011)

The Macalister Demonstration Farm is now milking 238 cows, grazing 63 hectares, a stocking rate of 3.8 cows per hectare. Last year at this time, there were 241 milkers, and the stocking rate was 3.9 cows per hectare. The daily allocation for last week was one 40th of the grazing area, and the actual grazing rest time was 38 days. The paddocks taken for silage have quickened the rotation.

Compared to last week, milk production per cow is up from 2.00 to 2.03 kg milk solids (MS) per cow per day. Litres per cow per day are up from 24.6 to 25.9. Milk fat test has fallen from 4.53% to 4.36% (fat yield is up from 1.12 to 1.13 kg per cow per day). The protein test has fallen from 3.60% to 3.48% (protein yield is up from 0.89 to 0.90 kg per cow per day). This time last year, milk production was 30.4 litres, 2.19 kg MS, 1.15 kg fat, and 1.04 kg protein per cow per day. It is estimated that the cow are losing 0.2 kg live weight per cow per day.

The daily pasture consumption from the grazing area is up from 42 to 49 kg dry matter (DM) per hectare per day. The pasture consumption per cow is up from 12.5 to 12.8 kg DM per cow per day. This time last year, pasture consumption was 52 kg DM per hectare per day, and 13.2 kg DM per cow per day.

0.9 kg nitrogen element, 0.07 kg potassium, no phosphorus, 1.1 mm of irrigation water per hectare per day, no topping, and \$0.19 of pasture renovation, all per hectare per day, have contributed to the current pasture consumption. The daily spend on these pasture inputs is \$2.26 per hectare per day, up from \$1.26. Based on those cash inputs only, the consumed pasture price is estimated to be \$46 per tonne of dry matter, up from \$38.

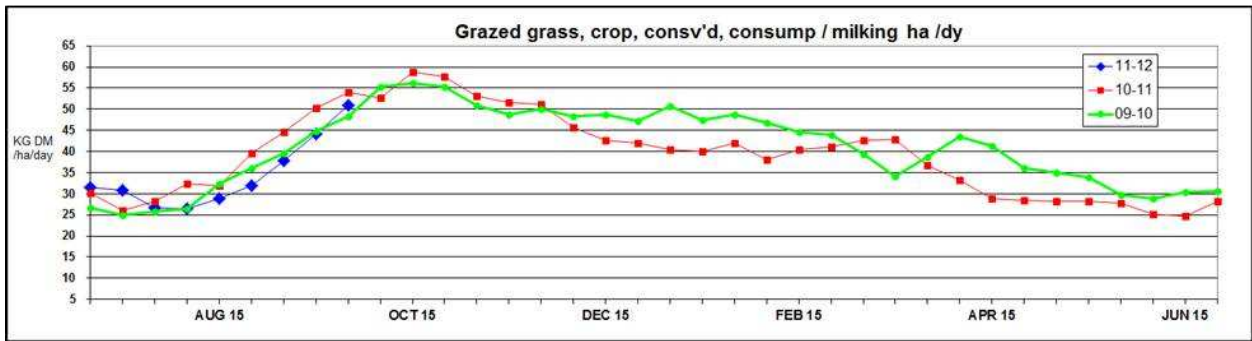
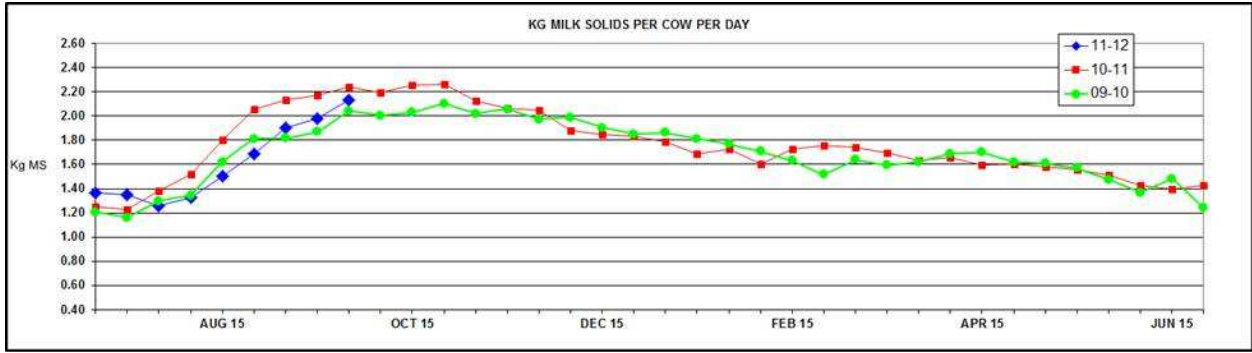
Supplementary concentrates include crushed wheat and minerals totalling 4.2 kg DM per cow per day, at an average price of \$337 per DM tonne. The cows have access to some oaten hay at the dairy, and eat 0.4 kg DM per day.

The BMCC has fallen from 163,000 to 130,000. This time last year the BMCC was 147,000.

The milk price (less compulsory levies) that the MDF anticipates receiving for the week is \$4.92 per kg milk solids, or 38.6 cents per litre. Milk income per cow per day is up from \$9.86 to \$10.01, made up of \$3.57 for the fat, \$7.12 for the protein, and minus \$0.68 for the litres. This time last year milk income per cow per day was \$10.90.

Feed cost per cow per day (including pasture and supplements) is up from \$2.00 to \$2.11 per cow per day, leaving a Margin over All Feed (MOAF) per cow of \$7.89, up from \$7.86 per day. The margin over all feed per hectare is \$29.77. The whole farm feed margin is \$1,876, up from \$1,628 per day. This time last year the whole farm feed margin was \$2,041 per day.

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WEEKLY FEEDING PERFORMANCE	Last Year	Last week	This week	Units
Week to date:	24-Sep	16-Sep	23-Sep	
Milker graze area	62	61	63	ha
Milker nos	241	208	238	head
Stocking rate	3.9	3.4	3.8	cows/ha
Grazing allocation 1/	45	41	40	th of graze area
Average graze rest time	46	44	38	days
Element N/hectare/day	1.2	0.9	0.9	kg element/ha/day
mm irrigation/hectare/day	0.3	0.0	1.1	mm water/ha/day
Estm'd pasture consmp'n (incl cons'vd forage)	52	42	49	kg DM/ha/dy
Pasture consum'd per cow	13.2	12.5	12.8	kg DM/cow/dy
Daily spend / milking ha	\$2.21	\$1.62	\$2.26	\$/ha/day
Estm'd pasture price	\$43	\$38	\$46	\$/T DM
Conc (incl additives)supp fed/cow	5.1	4.2	4.2	kg DM/cow/dy
Hay/silage supp fed/cow	0.0	0.4	0.4	kg DM/cow/dy
PKE supp fed/cow	0.0	0.0	0.0	kg DM/cow/dy
Estim'd supp waste	3%	4%	4%	%
Conc (incl additives)supp avg price	\$365	\$337	\$337	\$/T DM
Hay/silage supp avg price	\$0	\$216	\$216	\$/T DM
PKE supp price	\$0	\$0	\$0	\$/T DM
Total feed intake/cow	18.2	17.0	17.3	kg DM/cow/dy
Estm'd body cond't'n change	-0.32	-0.20	-0.20	kg LWT/cow/dy
Litres/cow	30.4	24.6	25.9	l/cow/day
Fat test	3.79%	4.53%	4.36%	%
Protein test	3.41%	3.60%	3.48%	%
Fat per cow	1.152	1.116	1.131	kg/cow/dy
Protein per cow	1.037	0.885	0.902	kg/cow/dy
MS per cow	2.19	2.00	2.03	kg/cow/dy
Anticipated final milk price (less levies)	\$4.98	\$4.93	\$4.92	\$/kg MS
Anticipated final milk price (/litre)	\$0.358	\$0.401	\$0.386	\$ per litre
Fat return per cow	\$3.60	\$3.52	\$3.57	\$/cow/dy
Protein return per cow	\$8.10	\$6.98	\$7.12	\$/cow/dy
Volume charge per cow	\$0.80	\$0.64	\$0.68	\$/cow/dy
Milk income/cow	\$10.90	\$9.86	\$10.01	\$/cow/dy
All feed cost/cow	\$2.44	\$2.00	\$2.11	\$/cow/dy
Margin over all Feed/cow	\$8.47	\$7.86	\$7.89	\$/cow/dy
MOAF /ha /day	\$33.07	\$26.54	\$29.77	\$/ha/day
Farm MOAF per DAY	\$2,041	\$1,628	\$1,876	\$/day
MOAF per month	\$62,258	\$49,667	\$57,213	\$/month
Energy density of diet	12.2	12.2	12.3	MJ ME/kg DM
Crude protein % of diet	22.0%	20.4%	21.1%	% CP
NDF Fibre level of diet	32.3%	32.9%	33.0%	% NDF
FCE kg MS per tonne DM food	119	116	116	
Tonne feed /day	4.4	3.6	4.1	tonne DM /day
Milk Return /tonne feed	\$594	\$573	\$573	\$/tonne DM
Average Price of feed	\$133	\$116	\$121	\$/tonne DM
Margin /tonne feed	\$462	\$456	\$452	\$/tonne DM
BMCC	147	163	130	